Calculating the stability of the hydrological magnitudes in the designing of hydroelectric power stations. Izv. vys. ucheb. zav. energ. 3 no.2:111-122 F '69. (MIRA 13:2)

1. Belorusskaya sel'skokhozyaystvennaya akademiya. Predstavlena Kafedroy gidravliki i vodosnabsheniya.

(Hydrology--Tables, calculations, etc.)

(Hydroelectric power stations)

TSINGER, V.N., dotsent (g.Gorki, Belorusskaya SSR)

Calculation of diurnal variations in the spring flow of small water-courses in estimating spillway discharge rates. Gidr. i mel. 13 no.2:57-64 F '61. (Hydrology)

(Hydrology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

TSINGER, V.N., dots., kand.tekhn.nauk

Graphs for determining the rated discharges of spillway installations with consideration of the regulating effect of reservoirs in the design of small hydroelectric power stations. Izv. vys. ucheb. zav.; energ. no.?:114-121 J1 158. (MIRA 11:10)

1. Belorusskaya sel'skokhozyaystvennaya akademiya. (Hydraulic engineering)

TSINGER, V.N., kandidat tekhnicheskikh nauk.

Calculations on reducing maximal discharges from reservoirs. Gidr.
i mel. 9 no.9:32-39 S'57.

(Beservoirs)

(Reservoirs)

THINGER, V.N.

AUTHOR:

Tsinger, V.N., Candidate of Technical Sciences 99-9-4/9

TITLE:

"Calculations for Lowering the Maximum Discharges from Water Reservoirs" (Raschety snizheniya maksimal'nykh raskhodov vodokhranilishchami)

PERIODICAL:

"Gidrotekhnika i Melioratsiya", 1957, Nr 9, pp 32-39 (USSR)

ABSTRACT:

Exact calculations of reductions or so called transformations of maximum discharges from water reservoirs, water balance, are very difficult. The author cites 2 equations, which he considers to be unsatisfactory, and proposes to use a more convenient method of calculating by means of graphs, expressing the relations

 $\frac{q \max}{q \max} = f(\frac{\forall q}{z q}, k_1, \eta).$ 

where q max - maximum discharge from the reservoir Q max - maximum discharge from the influx.

The graphs enable to carry out calculations in a very simple manner. There are 3 types of hydrographs - triangular, parabolic and concave-convex. Graphic calculations are composed for the two most widely used water discharge structures - spillway and pipe floodgates. The asymmetry of the hydro-

Card 1/2

99-9-4/9

"Calculations for Lowering the Maximum Discharges from Water Remervoirs"

graphs and the curve V = f(H) is taken into consideration and ranges within the limits k, from 0.20-0.40, and  $\eta$  from 0.0-0.40. The author gives 6 graphic diagrams of curve groups, expressing the relation between  $\alpha$  and  $\beta$  , where

q max;

The article lists comparisons of the results of transformations of maximum discharges according to equations and graphs of the author. The article contains 11 graphs, and 3 tables.

AVAILABLE: Library of Congress

Card 2/2

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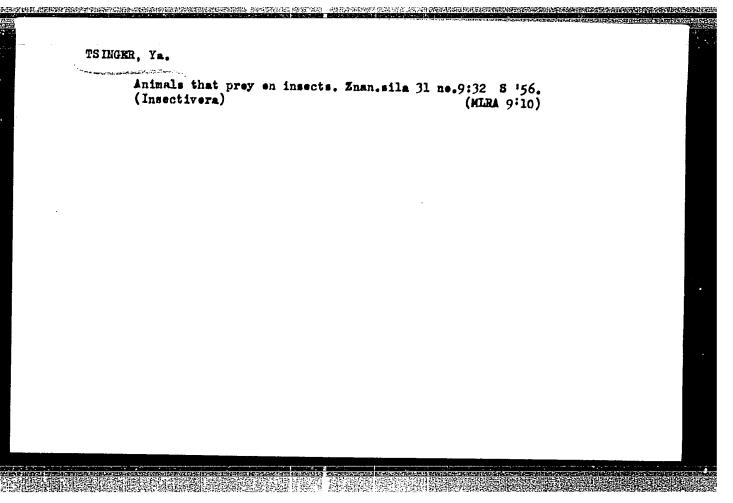
- 1, TSINGER, V. N., ENG.
- 2. USSR (600)
- 4. Reservoirs
- 7. Calculating lower maximum water discharges, and taking into account the proper functioning of water reservoirs. Gidr. i mel. 4 no. 11, 1952.

9. Monthly List of Russain Accessions, Library of Congress, March 1953. Unclassified.

TSINGER, Vladimir Nikolayevich; ALEKSEYEV, G.A., otv.red.; IVZHENKO, A.Kh., red.; VOLKOV, N.V., tekhn.red.

[Transformation of maximum discharge by reservoirs] Transformatsile maksimal'nykh raskhodov vodokhranilishchami. Leningrad, Gidrometeor.izd-vo, 1960. 122 p. (MIRA 14:1) (Spillways)

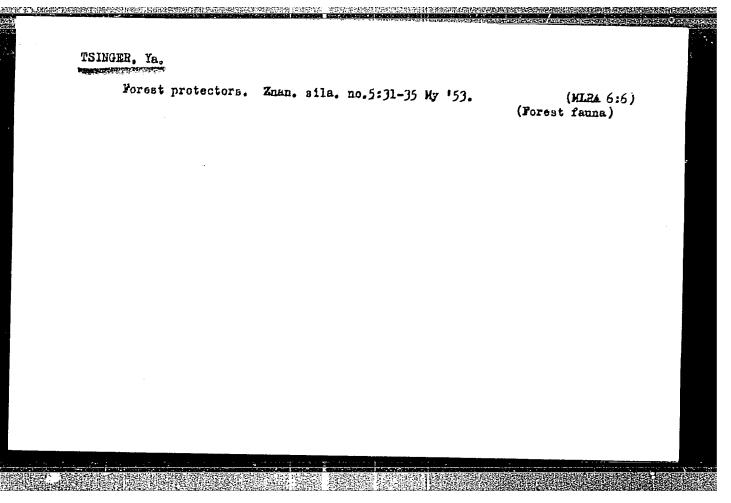
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

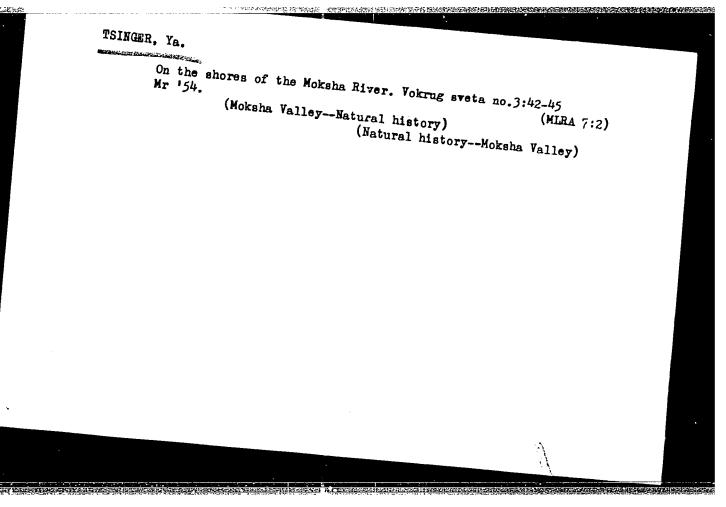


TSINGER, Ya.

"On the biology of Infusoria." Protistological Laboratory, Institute of Experimental Biology (director: academician N. K. Koltsov), Ministry of Health, Moscow. by Tsinger, Ya. (p. 425)

SO: Biological Journal (Biologicheskii Zhurnal) Vol. VI, 1937, No. 2





APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

TSINGER, Yakov Aleksandrovich; PETROVSKAYA, L.P., red.; TSIRUL'NITSKIY, N.P.,

[Zoology made interesting; accounts and stories of animals; a manual for students of secondary schools] Zanimatel naia zoologia; ocherki i rasskazy o zhivotnykh. Posobie dlia uchashchikhsia srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 149 p. (Zoology)

TSINGER, Yakov Aleksandrovich; MAKAROV, V.V., red.; KORNEYEVA, V.I., Tekhn. red.

[Entertaining zoology; essays and stories on animals] Zanimatel'naia zoologila; ocherki i rasskazy o zhivotnykh. Posobie dlia uchashchikhsia srednei shkoly. Izd.3., ispr. 1 dop. Moskva, Uchgadgiz, 1963. 182 p. (MIRA 16:8)

(Zoology--Juwenile literature)

AURHORS: Abkin, A. D.; Auer, A. L.; Breger, A. Kh.; Vaynshteyr,
B. I.; Voropayev, Yu. V.; Gol'din, V. A.; Gromov, V.
Osipov, V. B.; Syrkus, N. P.; Ushakov, V. D.; Khomikovskiy,
P. M.; Tsingister, V. J.; Ohikin, Yu. A.

TITLE: Radiation polymerization of ethylene in enlarged laboratory
apparatus.

SOURCE: Plasticheskiye massy\*, no. 2, 1964, 3-6

TOPIC TAGS: ethylene, radiation polymerization, reactor design,
reactor surface area, reaction rate, polymer yield, reactor temperature field

ABSTRACT: Radiation polymerization of ethylene was conducted in
laboratory reactors of 1-2 liter capacity (fig. 1 & 2). Based on
laboratory reactors of the specific surface accuracy. Comparison of
field can be calculated with sufficient accuracy. Comparison of
reaction rates and yield of ethylene polymer shows that these factors
are independent of the specific surface of the reaction space. Thus

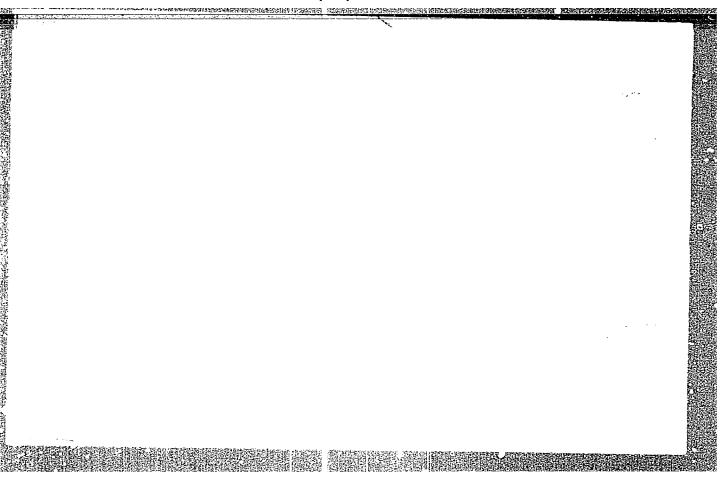
ACCESSION NR: AP4012181

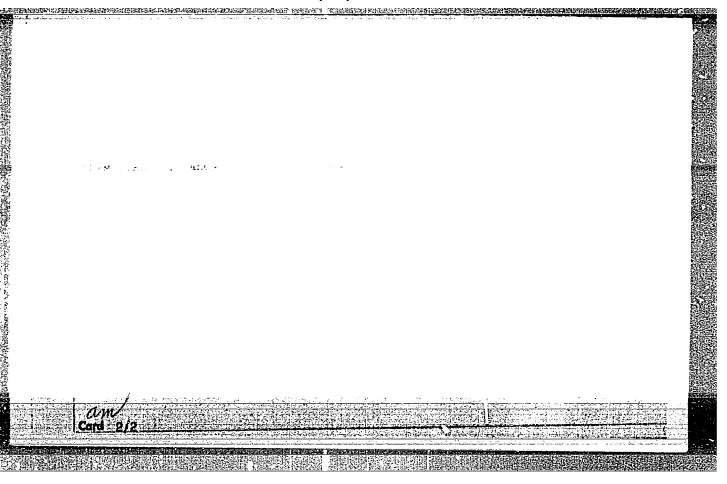
commercial scale apparatus can be designed by estimating the process rate and yield dependence on pressure, temperature and dosage rate without concern for specific surface area of the reactor.

ASSOCIATION: None

SUBMITTED: 00 DATE ACQ: 26Feb64 ENOL: 02

SUB CODE: MA NR REF SOV: 005 OTHER: 005





MEDVEDEV, S.S.; ABKIN, A.D.; KHOMIKOVSKIY, P.M.; GERASIMOV, G.N.; GROMOV, V.F.; CHIKIN, Yu.A.; TSINGISTER, V.A.; AUER, A.L.; YAKOVIEVA, M.K.; MEZHIROVA, L.P.; MATVEYEVA, A.V.; BEZZUBIK, Z.G.

Polymerization of ethylene by means of y-radiation. Vysokom.soed. 2 no.6:904-915 Je '60. (MIRA 13:6)

1. Fiziko-khimicheskiy institut imeni L. Ya. Karpova.
(Ethylene) (Polymerization) (Radiation)

CHERNYAYEV, I.I.; ZHELIGOVSKAYA, N.N.; TSINGISTER, V.A.

Trans effect of the hydroxyl group in isomeric diamwinodibromedihydroxy compounds of tetravalent platinum. Zhur. neorg. khim.
5 no. 12:2690-2699 D '60.

(Platinum compounds) (Hydroxyl group)

	9 t		Partages		2 21224	***** 0 4	7 NV 5 6 6 a	1					-
	ASSOCIATION,	O.915 g/cm²) differs, howe tensile etron I. B. Osipoy, experiments w it references Card 3/4	the resistation does with a factor of the the molecular weight of poly- estipless from 2500 to 5000 st combine resistation of factors are sets decreased resistant of poly- causes a lesser increase in the polymerisation trace and the relevant of the factors are sets on the polymerisation rate and the relevant of the substitute of the combine of the substitute of the subs	20.5 g/l.bour polyethylene the maximum produce with a produce with a produce with a produce with decrease of the molecular control of the molecula	with, the polymerisation rate increase with right of the collection than a constant value. The mean molecular exight and the characteristic viaseasity of the polymers increases with properties to the polymers increases with properties that providing transformation (plans); the mean resolution rate amounts to (5.4 g/).hours at 300 atm, 25°C, a. examine of 24 hours and radiation dose of 72 r/sec, and the maximum rate card 2/4	weight of 20000-00000. Polymers of the structure 01 pc(c, m/s, c) of Cly(c(p, k), c) form in good yield in ourbon tetrachloride. Retire in the general phase was investigated at constant present (100.000 min, 72 r/see) and decreased (100	spectroscopically analysed by <u>N. Y. Thhorizov</u> and <u>N. Juriyay. The</u> salernlar weight of the polysthyless obtained was determined by the set of light scattering by <u>I. G. Soboleva</u> and <u>N. W. Melterova</u> , partyrular hata on this will be given in a separate paper. The experiments of polystration in highest of the polystration in advanced to the season (50 acc. 130°C, will of feet of the collection that reaction proceed and the collection proceed in the season of the polystration in the great phase of the polystration proceed and the collection of the polystration of the polystration of the polystration proceeds and the collection of the polystration of the polystrat	in a sorresp	phase and in expanse unbetance was investigated at different passours and recipion of the passours and radiation does as well as some properties of the polymers formed.  60  9. rediation sources of the festitat in Larporn (Institute incolumns) Expans') (1400, 1800, and 20000 gram equiv. Ba) and pressures of the polymer festivation does of 17 to 165 piece, and 25°C (some experiments)	PERIODICAL	ALLTE:	15:3101 14.	•
	Fighte-Ehimicheek (Thysico-chemical February 24, 1960	To contract the contract to the contract to contract t	dose with a 25°C to 5 a 25°C t	r (Table 4) (Table 5) rate of pol roportion	lymerizati ue. The me e pelymers oftom rate 24 bours a	12 (20%) for a gaseous 172 r/sec 172 sand 172 sa	cally anal ight of th ittering by will be g on in bey; on in the ge	tep Suppose	a erganic i on dose as lation sout O, 1800, u	Tynokom pp. 904	To the second	1209	
	Faith-Chimicheskiy imetitut in. (Physico-chemical institute into February 24, 1960	of crysta slightly f sclusion, colidin f can emitte , 4 US, 1 1	dreressing of the principle of the princ	(Albor (Table 4). The mean solecular weight and viscosity of thylese (Table 5) rise with presence (i.e. the ettylene concentration are not of polymerianten increases someths with the radii of the proportionality factor of 0.5, while the radiation the research with an increase in the relation dose with a factor of 0.5, while the radiation dose with a fa	an molecul increases amounts t	Polymers rm in good phase was phase was phase was phase was the need	yaed by M. polysthy I. G. Sob in a man	rice (Fig.	well as so well as so well as so the of the dose of 17	Tyeokomolekulyarnyye soyedimeniya, 1960, Vol. 1, No. 6, pp. 904-915	Redvedov, 3. S., Abigaration Q. R., Gr. Lateryova, A. V., Ba Polymorisation of Et.		
	Ametitute (	transion to la rount the aminor exekutii there a there a british, as	transport of the state of the s	molecular presence ( presence ( p	areases el areases el areases el areases arease areas arease arease arease areas arease arease arease arease areas arease areas arease arease area area	of the att	T. Tikhou lete ottal	1). The et	tentint	Je soyedin	Abets, A. D., Known Grown v. T. L. Ch. Ch. Ch. Ch. Ch. Ch. Ch. Ch. Ch. Ch		
	1. 1.	than high- ter with thank in thank in thank own;	e molecular dose (Ta) lene concer lon rate an by Th. M	weight and sonewhat the while the latton dos	th time and the charding transfer at 30 hours at 30 72 7/2 ac.	neture Clyonarbon tetre dat consult increa	irow and M ned was de N. W. Waki aper. The thanol, and	e experime hylene use	on of why igated at les of the is. Karpov is. Mapov is. Mapov is. Mapov	eniya, 196	E. Chiki	85.0	
	Earpeva Earper	Assessing to the second	ran a reduction ( the 6). A the 60. A thration ( the the mol	d wiscosic	Transfer to the transfer terms to the transfer terms the transfer transfer to the transfer tr	rechloride fant press	termined or services or servic	des ses o	lene in the state of the state	O, Vol. 2,	Enomikayekir. P. K.; Chikim. Tu. A [Gindiler. M. E.; M.	83704 \$/190/60/002/006/009/012 \$015/3064	
		olyethylend the	tempera ur  50 g/1)  50 g/1)  50 g/1)  5 jud  1 jud	viscosity of Jene concentration ith the radiation distinction-charton with a factor of	then a to regard the first a fable 5 c. a.	(60%) and Polymeri	my the method rtfrular a of (50 atm.	arried out	preseure formed. fe imeni	No. 6,	K. Wadin	1/006/009/	
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IDEMOVITSKIY, V.I.; TSINGISTER, V.A.; LAGUCHEVA, R.M.; KARPOV, V.L.

Inhibiting effect of certain solid additions on the radiation-chemical processes. Zhur. fiz. khim. 39 no.4:984-986 Ap 165.

(MIRA 19:1)

1. Fiziko-khimicheskiy institut imeni Karpova. Submitted Jan. 17, 1964.

26.2431

5/197/62/000/011/002/003 B184/B102

10,2000 AUTHORS:

Tsinober, A., Shcherbinin, E.

TITLE:

The influence of a transverse magnetic field on the resistance of bodies flown around by an electrically

conducting liquid

PERIODICAL:

Akademiya nauk Latviyskoy SSR. Izvestiya, no. 11 (184),

1962, 45-54

TEXT: The behavior of nonconducting cylinders placed in a mercury flow is investigated experimentally. The cylinders had the diameters d = 0.3, 1.2,

2.05, and 5 mm. The value obtained for the resistance coefficient

 $C_f = f/\frac{1}{2} / v^2$ ld was found to be  $C_f = C_0 \int 1 + f(\overline{1}) \frac{M}{|\overline{Re}|}$ , where f is the force exerted by the flow on the cylinder,  $Re = \frac{f \cdot vd}{2}$  is the Reynolds number (100 < Re < £300) j is the density of mercury, v is the velocity of the undisturbed flow,  $\eta$  is the dynamic viscosity of mercury,

M = Bb  $\sqrt[4]{\eta}$  is the Hartmann number (0 < M < 40), where B is the magnetic Card 1/2

The influence of a transverse magnetic ... S/197/62/000/011/002/003 B184/B102

induction,  $\sigma$  is the electrical conductivity of mercury,  $\overline{l}=1/d$  where l is the depth of immersion of the cylinder,  $C_0$  is the  $C_1$  value without magnetic field.  $f(\overline{l})=3.4$  implies infinitely long cylinders. Substituting a sphere for a cylinder, the value obtained for

 $C_f = \frac{F}{\frac{1}{2} c_v^2 \frac{2\pi d^2}{4}}$  was found to be  $C_f = C_o \left[ 1 + \frac{M}{\sqrt{Re}} \right]$ . It was established that

with  $\frac{M^2}{Re} \gtrsim 10^{-2}$  the influence of a transverse magnetic field on the resistance is substantial when bodies are flown around by electrically conducting liquids. There are 6 figures.

ASSOCIATION: Institut fiziki AN Latv. SSR

(Institute of Physics AS LatSSR)

SUBMITTED: April 24, 1962

Card 2/2

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TSIMGOVATOV, I. A.

FA 20T97

# USSR/Radio Broadcasting Radio - Relay Equipment

Sep 1947

"Raising the Level of Technical Exploitation at Radio Rebroadcasting Centers," I. A. Tsingovatov, Chief of Central Administration for Radio, Ministry of Communications, A. G. Lordkipanidze, Chief of Technical Exploitation Section, 2 pp

"Vestnik Svyazi, Elektro-Svyaz'" Vol VII, No 9 (90)

Mentions construction of more than 2,300 radio centers during the new 5-Year Plan. More than 25 per cent of radio centers are equipped with new apparatus type RTU-100-B, TU-500 and TU-5.

20197

TSINGOVATOV, I. A.

Radiotransliatsionnaia set' strany. [The radio rebroadcasting network of the country]. (Radio, 1947, no. 11, p. 25).

DLC: TK540.R76

Razvitie sel'skoi radiotransliatsionnoi seti i uluchshenie kachestva raboty - vazhneishaia zadacha. The development of rural radiorebroadcasting network and the improvements of the quality of work - is the main task. (Vestnik sviazi. Pochta, 1947, no. 6, p. 3, illus.: the new 500 watt amplifier).

DLC: HE7.V44

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

A STATE OF THE PROPERTY OF THE TSINGOVATOV, I. A. PA 78T93 USSR/Radio Broadcasting Radio Equipment Mar 1948 "The Five-Year Plan of Radiofication, Completed in Four Years," I. Tsingovatov, Chief, Cen Adm for Radiofication, Ministry of Communications USSR, 3 pp "Radio" No 3 It is hoped that by 1950 there will be in operation a radio network which will be some 75% greater than the prewar net. Ministry of Communications will have to in stall some 3 million radio points, and increase the number of powerful broadcasting stations threefold. Briefly describes progress achieved in fulfilling the ID

TSINGOVATOV, I.A., otvetstvonnyy redaktor; SOKOLOVA, R.Ya., tekhnicheskiy redaktor

[International Telecommunication Conference; concluding report to the conference, supplementary reports to the conference, resolutions, recommendations, and wishes] Mezhdunarodnaia konventsiia elektrosviazi; sakliuchitel'nyi protokol k Konventsii, dopolnitel'nye protokoly k Konventsii, rezoliutsii, rekomendatsii i pozhelaniia. Moskva, Sviaz'izdat, 1954. 157 p. (MLRA 10:1)

1. International Telecommunication Conference, Buenos Aires, 1952. (Buenos Aires—Telecommunication—Congresses)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

SATSERDOTOV, B.P.; TSINGOVATOV, L.V.

Morozov dendrologic tract. Uch. zap. Penz. gos. ped. inst.
no.6:117-130 159. (MIRA 15:5)

CHINAYEV, M.T. TSINGOVATOV, L.V. (de casei): PETROVA, V.A., Tag to.

[Nature calendar of Penza Province] Katendar pricody Penzenskoi oblasti. Saratov, Privolzhskoe knizhnee izdvo, 1964. 178 p. (MIRA 18.2)

1. Deystvitelinyy oblem Penzenskog, otoela Voesoyurneg geograficheskogo obshchestva, starshiy inzhenera agrometeorolog Penzenskogo gidicmeteorologisheskogo tyur, (for Fetrova).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

TSINOBER, A. [Cinobers, A.]; SHCHERBIN.N, E.

Effect of a transverse magnetic field on plate resistance. Izv.4N
Latv.SSR no.6:43-48 'c3. (MIRA 17:4)

1. Institut fiziki AN Latviyskoy SSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

TEINGUVATOV, V.A Country USSR Category : Diseases of Ferm Animals. Diseases Caused by Bacteria and Fungi. R Abs. Jour. : Rof Zhur-Biol., No 21, 1958, 96995 : Bel'kov, N. F.; Vikhlyayeva, S. S.; Tsingovatov, Author Institut. : Omsk Institute of Veterinary Sciences. Title : The Role of Nutrition in Raising the Resistance of Animals to Brucellosis. Orig Pub. : Tr. Omskogo vet. in-ta, 1957, 15, 101-117 Abstract : It is shown here that the reactivity and resistance to brucellosis infection in rabbits change at different levels of protein nutrition. Rabbits kept on rations containing normal amount of digestible protein with a medium protein ratio manifested a considerably higher resistance to brucellosis infection when they were given a subcutaneous injection of Br. melitensis culture as compared to rabbits which were kept on rations with a surplus of digestible protein 1/2 \*V. A. Card:

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TSINGOUNTOU, V. A

BARSUKOV, N.I., kand.sel'skokhozyaystvennykh nauk; KIZYURIN, A.D., doktor sel'skokhozyaystvennykh nauk; BORINEVICH, V.A., kand.sel'skokhozyaystvennykh nauk; BORMUSOVA, S.H., agrouom; VERMENICHEVA, H.D., kand. sel'skokhozyeystvennykh neuk; GESHELA, E.E., doktor biol. nauk; GOROKHOV, G.I., kand.sel'skokhozyaystvennykh nauk; GUBKIN, S.M., kand. veterinarnykh nauk; YELYKOVA, L.I., kand.sel'skokhozyaystvennykh nauk; KOTT, S.V., doktor biol. nauk; KOCHKINA, V.A., agronom; LAMBIN, A.Z., doktor biol.nauk; LEBEDEVA, Ye.M., agronom; MALAKHOVSKIY, A.Ya., doktor sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand. sel'skokhozyeys vennykh nauk; MAYDANYUK, A.E., zootekhnik; OVSYANNIKOV, G.Ye., kand.sol'skokhozyaystvennykh nauk; PMTROV, F.A., kand.biol.nauk; POGORELOV, P.F., agronom; POLKOSHNIKOV, M.G., dotsent; RENARD, G.K., kend. sel'skokhozyaystvennykh nauk; RUCHKIN, V.N., prof.; SADYRIN, M.M., kand.sel'skokhozyaystvennykh nauk; TOBOL'SKIY, V.YA., vetvrach; TYAZHEL'NIKOV, S.J., kand.sel'skokhozyaystvennykh nauk; UKHIN, I.I., kand.sel'skokhozyaystvennykh nauk; FEDOROV, G.V., kand.sel'skokhozyaystvennykh nauk; CHIRKOV, D.I., zootekhnik; TSINGOVATOV, V.A., prof.; SHVETSOVA, A.N., kand.sel'skokhozyaystvennykh nauk; SHEVLYAGIN, A.I., kand sel skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOLUBINSKAYA, Ye.S., red.; NECHAYEVA, Ye.G., red.; PERESYPKINA, Z.D., tekhnicheskiy red.

[Siberian agronomist's reference manual] Spravochneia kniga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry, Vol.2. 1957. 839 p. (Siberia--Agriculture) (MIRA 11:3)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

VASILEVAKAYA, Vanda [Mesilevaka, Manda]; VASILEVSKAYA, E. [translated];
RYABININA, A., red.; YAKOVLEV, B., red.; TSINGOVATOVA, Ye., red.;
TROSHIN, A., tekhn.red.

[Under the sky of China. Trnalated from the Polish] Pod nebom
Kitaia. Moskva, Gos.izd-vo khudozh. lit-ry, 1953. 310 p.

(China--Description and travel) (MIRA 11:5)

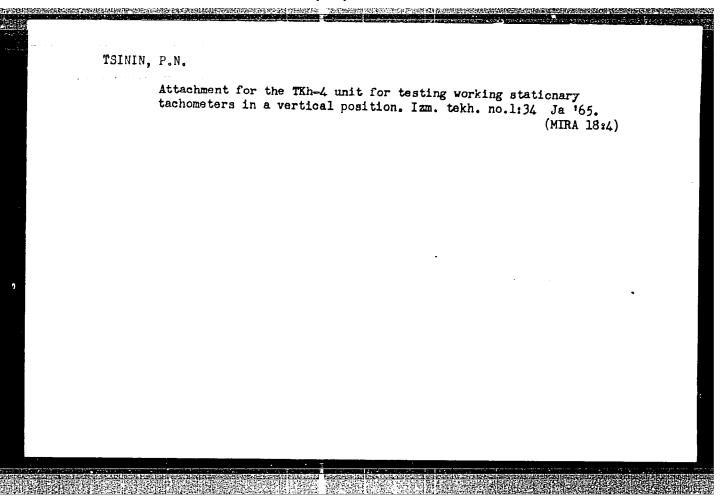
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KARTHANNELDSCHAMEN DESCHAMMENENEN KRAMMEN (SER FORESCHE START). TO SERVE

Maintenance and repair of weighing machines in rural districts.

izn.tekh. no.1:59-60 Ja '60. (MIRA 13:5)

(Weighing machines—Maintenance and repair)



Deep drainage of low moors. Gidr. i mel. 12 no.11:31-35 N '60.

(MIRA 14:1)

1. Peterniyekskaya opytnaya meliorativnaya stantsiya, Latviyakaya SSR.

(Latvia—Peat bogs) (Drainage)

TSINIS, E. A., Cand Agr Soi — (diss) "Bottor-quality annual fodder crops and their utilization in the system of green conveyer? on the humus-glay and peat-swampe soils." Rigs, 1959. 30 pp (Min of Higher Education USSR. Latvian Agr Acad). 200 copies (KL,40-59, 105)

45

Welded and forged parts for high-duty forging and pressing equipment. Sbor. Novo-Kram. mashinostroi. zav. no.3:104-111 159. (MIRA 17:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

TSINKALOVA, N.

For a greater efficiency, initiative and persistence. Fin.SSSR 38 no.2:
18-22 F '64.

(MIRA 17:2)

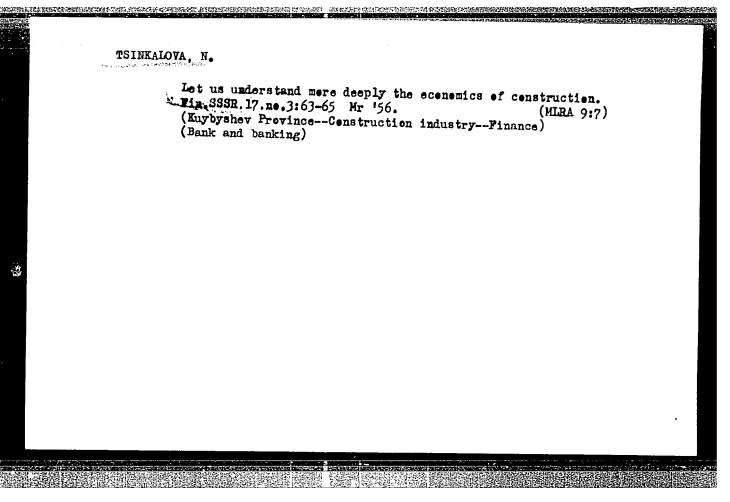
1. Upravlyayushchiy Kuybyshevskoy kontoroy Stroybanka.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

Our suggestions. Fin. SSSR 20 no.1:71-72 Ja '59.

(MIRA 12:2)

1. Upravlyayushchiy Kuybyshevskoy kontoruy Prombanka. (Kuybyshev Province-Economic-policy)



USSR / Human and Animal Physiology. Carbohydrate Motabolism.

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AND RESIDENCE OF THE PROPERTY OF THE PROPERTY

Abs Jour

: Ref Zhur - Biol., No 15, 1958, No. 69821

Author

TSinkalovs ka, S. M.

Inst

: Not givon

Titlo

: The Content and Intensity of Renewal of Glycogen in the Skeletal and Heart Muscles of the Rabbit with Experimental

Muscular Dystrophy

Orig Pub

: Ukr. biokhim. zh., 1957, Vol 29, No 4, 458-469

Abstract

Card 1/2

USSR / Human and Animal Physiology. Carbohydrate Motabolism.

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Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 69821

respectively, while the normal was 409.98 mg percent. For determination of the intensity of replenishment of G, the same animals, 90 minutes prior to decapitation, were given acetate-1-Cl4 subcutaneously in a dose of 30,000 impulses/min per gm body weight. The intensity of renewal of G, determined by the number of impulses/min in the MT and heart muscle in I was lower (4975 and 950 respectively) than in II (402-2750 and 360 respectively) and in the normal (260 and 348).

Card 2/2

24

THE REAL PROPERTY AND THE PROPERTY OF THE PROP

TSINKALOVS'KA, S.M.

Content and renewal intensity of glycogen in skeletal and cardisc muscles of rabbits under conditions of experimental muscular dystrophy [with summary in English]. Ukr.biokhim. zhur. 29 no.4: 458-469 '57. (MIRA 11:1)

1. Institut biokhimii AN URSR, M. Kiiv. (MUSCULAR DYSTROPHY) (GLYCOGEN)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

#### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDF

CIA-RDP86-00513R001757110007-2

EWP(k)/EWP(h)/EWI(d)/EWP(1)/EWP(v)05237-67 SOURCE CODE: UR/0372/66/000/001/G036/G037 ACC NRI AR6020535 AUTHOR: Avraamov, I. S.; Derkach, V. A.; Derkach, N. G.; Nesyrev, V. I. Tsinker, E. B. TITLE: A system for the programmed control of wide-reach multiple-stop mechanisms SOURCE: Ref zh. Kibern, Abs. 1G251 REF SOURCE: Mezhvuz. sb. tr. Zap. -Sib. sovet po koordinatsii i planir. nauchnoissled. rabot po tekhn. i yestestv. naukam, vyp. 4, 1965, 129-136 TOPIC TAGS: automatic programming, crane, control circuit ABSTRACT: A system (8) for the programmed control of the movements of a grab-type bridge crane is described. The S may also be used to control mechanisms moving over distances of several dozen meters and longer. This 8 is characterized by the discrete determination of the coordinates of the bridge and carriage of the crane, accomplished at individual points by means of independent contact pickups. Then the precision of the halt does not exceed the dimensions of the pickup. The article presents a schematic diagram of a 8 with the following elements: 1) setting device; 2) encoder of the specified coordinate; 3) device for determining UDC: 62-506:681:142.:352:621 A STATE OF THE STA

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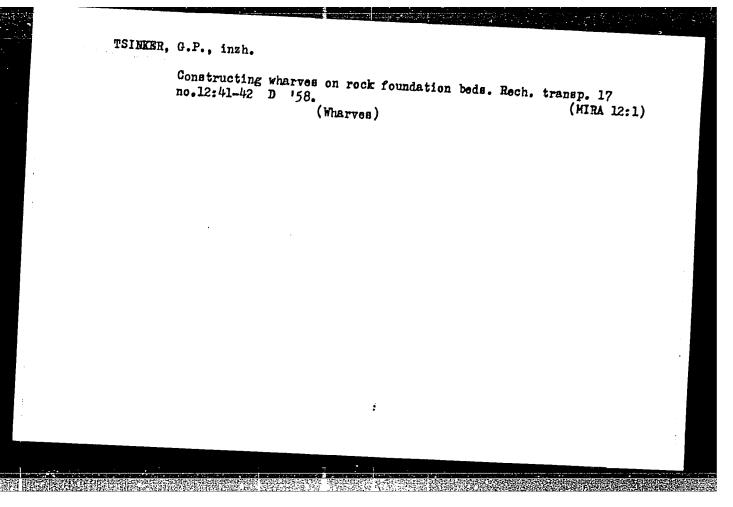
ACC NR: AR6020535

crane position; 4) encoder of the current coordinate (CC); 5) CC memory; 6) digital arithmetic device (AD); 7) instruction device. The setting device specifies the coordinates of the two points between which the crane should move, and it consists of two pairs of switches. The encoder of the specified coordinate converts these coordinates to binary code. The device for determining the crane's position consists of a self-excited key oscillator with an emitting coil, mounted on the crane bridge; receiving coils, mounted directly along the crane's path, and distributed encoder of CC, converting the signal to the number of the fixed coil at which the crane bridge happens to be present at the moment. The current-coordinate memory serves to store the CC code during the movement of the bridge from one pickup to another, and also to covert the code to its potential form. Since the specified and current coordinates are expressed in binary code, the instructions are triggered by the comparison of the binary numbers in the AD and transmission of the results of the comparison to the instruction device. Two AD designs, one based on contact elements and the other, on contactless elements, were investigated. The operating principle and diagram of AD are presented, as are the diagrams of the other components. For mechanisms operating at high speeds at I requiring precise stopping correct to  $\sim 0.1$  m it is more expedient to employ the contactless type of AD. To enhance the precision of stopping a DC electric drive must be used, and the control signals must be generated continuously, on using a continuous servosystem for this purpose. The latter should include autòcorrection at definite points along the path of the crane. 5 illustrations. Bibliography of 4 SUB CODE: 09, 13, 20/

Flanning and construction of "trestle bulwark" embanizents from precast reinforced concrete. Rech. transp. 18 no. 7:47-48 J1 '59.

(Embankments)

(MIRA 12:11)



Piers built of reinforced concrete. Rech.transp. 16 no.10:35
0 '57. (MIRA 10:12)
(Piers) (Reinforced concrete construction)

TSINKER, G.P., inzhener; LAZEBNIK, G.Ye.

Whart structures for river ports. Rech. transp. 15 no.7:21 J1 '56.
(Marves)

(MIRA 9:9)

Using a T-shaped reinforced concrete sheet pile in harbor construction. Trudy LIIVT no.26:135-142 '59. (MIRA 14:9) (Sheet piling) (Harbors) (Concrete piling)

TSINKER, G.P., inzh.

Using flexible piles in the construction of embankments.

Transp. strol. 14 no.8:20-21 Ag \*\*164.

(MIRA 18:1)

TRINKER, G., Inzh.

Investigating trostle-type embankment. Rech.transp. 23 no.11:36-37
(MIRA 18:3)

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THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

BESSONENKO, V.V.; TSINKER, M.N. (Novo-Kuznetsk)

Initial experience in organizing the work of a therapy center for terminal states. Sov. zdrav. 21 no.5:67-68 62. (MIRA 15:5)

l. Iz tsentra terapii terminal'nykh sostoyaniy pri kafedre travmatologii i ortopedii (zav. - prof. L.G.Shkol'nikov) Novo-Kuznetskogo gosudar-stvennogo instituta dlya usovershenstvovaniya vrachey (dir. - dotsent G.L.Starkov) i Gorodskoy stantsii skoroy meditsinskoy pomoshchi (glavnyy vrach M.N.TSinker).

(DEATH, APPARENT) (NOVOKUZNETSK-RESUSCITATION)

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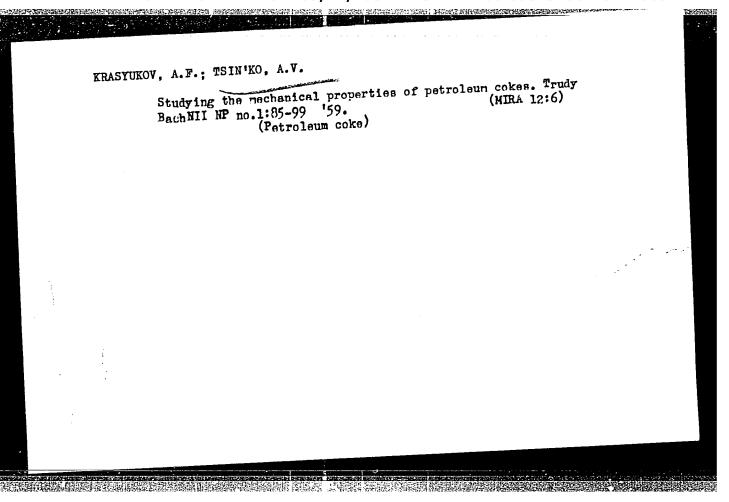
CHIBUKMAKHER, N.B., prof.; TSINKIN, A.M. (Khar'kov)

Use of threads and fabric from plyamide resins in the surgery of peripheral nerves. Vrach.delo no.3:75-80 Mr '63.

1. Laboratoriya eksperimental'noy neyrokhirurgii Ukrainskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta.

(SUTURES) (NERVES, PERIPHERAL—SURGERY)

More accurate methods for determining the atrength coefficient of pretroleum coke particles. Trudy Bash NII NP no.3:119-122 (60. (Petroleum coke)



TSINKOLENKO, B. P.	
32527. Vol'skiy, S. A. Metod izgotovliniya rolikov dlya besalmaznov provki shlifoval'nykh krugov. Stanki i instrument, 1949, No. 10, s. 17-18.	
SO: Letopis' Zhurnal'nykh Statey Vol. 44	

USSR/General and Special Zoology. Insects

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25752

Tsinkovski Yn.P. Author

: A New Method of Fixing the Prognosis of May Beetle Larvae Passing into the Chrysalis Stage. (novyy metood ustamovleniya Inst Title

pro(moza okuklivaniya lichinok maiskogo khrushcha)

.Orig Pub : Sb. tr. po zashchite rast. Riga, AN LatvSSR, 1956, 101-114

Abstract : A c: cological study of the development of the female and the male sex systems was carried out, beginning with the embryo and ending with the death of the beetles. The larvac which passed into the chrysalis stage in the present year were characterized in May by the following properties. The spermatogoniae multiplied together in groups of a few in cysts by means of mytosis. In the present year the larvae, the width of whose male sex Glands was equal to 1.2 mm and more, passed into the chrysalis stage, In the ferale sex glands the light cells occupied 1/3-1/2 of the germarium length, in the

7 -- برس

YUGOSLAVIA/Microbiology - Sanitation Microbiology.

F-4

Abs Jour

: Ref Zhur - Biol., No 15, 1958, 67228

Author

: Tsinleski, B.G.

Inst

: Khig. in-t

Title

: Fecal Types of Welchia perfringens, Gausing Food Poisonings

and Their Diagnosis.

Orig Pub

: Glasnik Khig. in-ta, 1957, 6, No 1-2, 53-58.

Abstract : No abstract.

Card 1/1

TOIN MAN, A. I.

AUTHORS: Pamfilov, A.V. and Tsinman, A.I. 73-2-5/22

TITLE: Application of the Arrhenius' kinetic equation to the electrolysis with low values of polarization. (Primenimost' kineticheskogo uravneniya Arreniusa k elektrolizu pri malykh velichinakh polyarizatsii).

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.168-173, (USSR).

ABSTRACT: S.V.Gorbachev (Ref.1: S.V.Gorbachev: Zh.Fiz.Khimii, 1950, Vol.24, 888) investigated the relation between the speed of electrolysis and temperature that the character of polarisation can be determined by the application of the kinetic equation given by Arrhenius. V.A.Pleskov and N.B.Miller (Ref.3: V.A.Pleskov and N.B.Miller: Trudy Soveshchaniya po Elektrokhimii, Izd.AN SSSR, Moscow, 1953, 165) investigated changes in the current of amalgams of bismuth, lead and zinc and found a linear relation between the logarithm of the current density change and the inverse temperature. This fact leads to the conclusion that the equation by Arrhenius must also apply for small values of polarisation. The authors verified this theory by testing cathodic deposits of lead from its salt solu-

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

73-2-5/22

Application of the Arrhenius' kinetic equation to the electrolysis with low values of polarisation. (Cont.) tions, as sufficiently strong currents at small polarisation values can be obtained in these solutions. The electrolysis of aqueous solutions of lead nitrate and lead acetate proved the existence of a linear relation between the logarithm of the current density and the inverse temperature of polarisation at considerably lower values than 0'.1 volt. The changes of cathodic polarisation with the varying current density in a 0'.1 mole solution of lead nitrate and in a 0'.01 mole solution of zinc acetate containing 0.02 mole acetic acid for different temperatures are given in diagrams 1 and 2. It is also shown that the polarisation is a function of the temperature during constant current density (Diagram 4.). During small current densities (0.17 to 0.09 ma/cm2) this relation can be defined directly. The polarisation at constantly increasing temperatures was measured at constant current densities for this investigation. It is shown that the polarisation changes considerably more at low temperatures and that it changes insignificantly at

73-2-5/22

Application of the Arrhenius' kinetic equation to the electrolysis with low values of polarisation. (Cont.)

higher temperatures. Values for the electro-conductivity of lead at various temperatures are tabulated (viz. Table

There are 9 diagrams, 1 table and 8 references, all of which are Slavic.

ASSOCIATION: Czernovicz University, Physical Chemistry Laboratory.

(Chernovitskiy Universitet, Laboratoriya Fizicheskoy

SUBMITTED: May 3, 1956.

AVAIIABLE: Library of Congress

Card 3/3

TSINMAN, A.1.

Decrease of hydrogen overvoltage on a mercury cathode caused by the possible dissolution of the platinum anode. Thur. fiz. khim. 36 no.6:1388-1389 Je'62 (MIRA 17:77)

1. Lisichanskiy filial Gosudarstvennogo nauchmc-isaledovateliskogo i proyektnogo instituta azotnoy premyshlennosti i produktov organicheskogo sinteza.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

Overtension of oxygen on platinum. Ukr. khim. zhur. 23 no.5:579-5				no.5:579-583
157.	(Electrochemistry)			(MLRA 10:11)
				1

# TSINMAN, A.I

Hydrogen overvoltage on a mercury cathode activated by small amounts of metallic platinum. Izv.vys.ucheb.zav.; khim.i khim.tekh. 3 no.6: 1104-1106 '60. (MIRA 14:4)

1. Chernovitskiy gosudarstvennyy universitet, kafedra fizicheskoy khimii.

(Hydrogen) (Overvoltage)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

S/073/60/026/004/012/018/XX B023/B064

AUTHOR:

Tsinman, A. I.

TITLE:

Oxygen Overvoltage on Gold in Sulfuric Acid Solutions

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 4,

TEXT: It was the aim of the author's investigation to study the oxygen overvoltage on gold by means of the polythermal lines of electrolysis. By the usual compensation method anodic polarization curves were recorded in 0.1 N and 6.5 N sulfuric acid solutions in the range of  $10^{-6}$  –  $10^{-2}$  a·cm<sup>-2</sup> Measurements were made at temperatures of 21, 40, 60, and 80°C. A gold lamella soldered into glass served as anode, a platinum lamella as auxiliary electrode, which had been treated with hot nitric acid. The potential of the oxygen electrode was determined by the method of N. N. Voronin and M. A. Shakhova (Ref. 4). The author is of the opinion that the change of the course of the polarization curve on gold may be explained by the change of the anode surface at different potentials. The oxygen separation in the region of the linear course of the polarization curve occurs on the

Card 1/4

Oxygen Overvoltage on Gold in Sulfuric Acid S/073/60/026/004/012/018/XX B023/B064

surface of the electrode covered with  $\mathrm{Au_20_3}$ . The inclination coefficient of the polarization curve changes only little with increasing concentration; with a 6.5 N solution it is 0.064 v. The oxygen separation potential increases with decreasing pH. The overvoltage increases by 20-40 mv only. Figs. 2 and 3 illustrate the effect of temperature on the overvoltage of oxygen. The temperature coefficient amounts to 1 mv/degree in a 0.1 N  $\rm H_2SO_4$  solution. In the 6.5 N solution it amounts to almost 2 mv/degree. Fig. 4 shows the linear dependence of the current density logarithm on the reciprocal temperature at constant overvoltage. The activation energy in C.1 N solution determined from the isopotential straight line is practically constant and amounts to 6.7 - 7.5 kcal.in the investigated range of polarization. In the 6.5 N sulfuric acid solution, it amounts to 13 kcal at an overvoltage of 0.75 v. At an increase of the overvoltage to 0.85 it decreases to 6 kcal. The author is of the opinion that the independence of the experimental activation energy of the electrode process on the value of the potential, proves the diffusion character of the polarization. The activation energy of the anodic process is considerably higher, which indicates the chemical character of the polarization. The

Card 2/4

Oxygen Overvoltage on Gold in Sulfuric Acid S/073/60/026/004/012/018/XX B023/B064

inclination coefficient of polarization increases with increasing concentration. The values of the anodic oxygen separation on gold differ considerably in a 0.1 N and 6.5 N  $\mathrm{H}_2\mathrm{SO}_4$  solution. At an overvoltage of 0.75 - 0.80 the difference between the activation energies is approximately 4 kcal. The increase of the activation energy may be explained by the change of the electrode surface. G. Deborin and B. Ershler (Ref. 13) proved that in acid solutions the binding of oxygen to the electrode surface is better than in alkaline solutions. Gold oxides are acid and therefore become more durable with increasing acid concentration. In conclusion, the author compares the results of his studies with the dependence of the activation energy value of the anodic oxygen separation on the platinum electrode on the sulfuric acid concentration. He finds that the theory of the dependence of the activation energy of anodic oxygen separation on the energy of the binding metal-oxygen is generally valid. At increasing binding energy between oxygen and electrode, the activation energy increases, as compared with the polythermal method. If the binding energy is reduced also the activation energy decreases. Finally, a scheme of the anodic process is given and explained. The author thanks Professor A. V. Pamfilov for valuable advice. Papers of Z. V. Nikolayeva and

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

Oxygen Overvoltage on Gold in Sulfuric Acid S/073/60/026/004/012/018/XX Solutions B023/B064

A. I. Krasil'shchikov (Refs. 5, 6) are mentioned. There are 5 figures and 20 references: 15 Soviet, 4 British, and 1 Spanish.

ASSOCIATION: Chernovitskiy gosudarstvennyy universitet

(Chernovtsy State University)

December 22, 1958 SUBMITTED:

Card 4/4

# TSIMAN, A.I.

Oxygen overvoltage on gold in perchloric acid solutions. I:v.vys. ucheb.zav.;khim.i khim.tekh. 4 no.3:387-392 161.

1. Chernovitskiy gosudarstvennyy universitet, kafedra fizicheskoy khimii.

(Gold) (Perchloric acid) (Electrochemistry)

20365

S/020/61/136/005/029/032 B101/B#06

26, 252/

AUTHORS:

Tur'yan, Ya. I. and Tsinman, A. I.

TITLE:

The effect of concentration and type of alkali on the oxygen

overtension at the nickel anode

PERIODICAL: Doklady Ak

Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1154-1157

TEXT: The authors state that the data published on the effect of the [OH] concentration on the oxygen overtension  $\eta$  of a smooth nickel anode are contradictory and comprehend only low current densities i. Experiments were therefore conducted with the participation of L.F. Gushchina, the conditions of which were similar to those described in Ref. 4. However, no rotating electrode was used, and the resistance drop was measured by means of several electrolytic switches at various distances from the electrode (galvanic nickel on platinum wir. Linear dependence of the potential on the distance was found for i = const. The experiments were made at 25°C with purified KOH, NaOH, and LiOH. The results obtained for  $\eta = f(\log i)$  are shown in Figs. 1 to 3. Three sections appear: section I, flatly rising, with the limiting phase Ni<sub>2</sub>O<sub>3</sub> + 20H<sub>ads</sub>  $\rightarrow$  2NiO<sub>2</sub>(Ni<sub>2</sub>O<sub>4</sub>) + H<sub>2</sub>O Card 1/7

**20365** \$/020/61/136/005/029/032 B103/B206

The effect of concentration ...

(1) for  $\gamma = {\rm const} + ({\rm RT/2F}) \ln i$  (2). Then, the steeply rising section II follows and, finally, section III with OH - e - OH ads (3) as limiting phase and  $\gamma = {\rm const} + ({\rm RT/4F}) \ln i - [(1-1)/4] ({\rm RT/F}) \ln [{\rm OH}]^{-} - \varphi_1(1-4)/4$  (4). The course of the curve depends on the nature of the alkali. In the range  $[{\rm OH}]^{-} = (2 - 7.5) {\rm M}$ ,  $\gamma$  increases in the order K<sup>+</sup> < Na<sup>+</sup> < Li<sup>+</sup>, while for lower [OH]<sup>-</sup>, the course is reverse. For this behavior of the nickel electrode, a change of the catalytic properties of its surface is assumed owing to incorporation of alkali ions into the lattice of the oxides. Concentration and nature of the alkali cation manifest themselves by the length of section III (corresponding to complete covering with NiO<sub>2</sub>) increasing in the order Na<sup>+</sup> < K<sup>+</sup> < Li<sup>+</sup>. The slow increase of  $\gamma$  speaks in favor of this assumption as soon as some LiOH is added to the KOH solution at  $i = {\rm const}$ . Compared with NaOH and KOH, the increase of  $\gamma$  in LiOH is already considerable in the range  $10^{-3}$  < i <  $10^{-2}$  -  $10^{-1}$  a/cm<sup>2</sup>. It is concluded therefrom that during charging of an alkali battery with  $i > 10^{-1}$  a/cm<sup>2</sup>, the battery capacity is only slightly affected by addition Card 2/7

20365

The effect of concentration ...

S/020/61/136/005/029/032. B101/B206

of LiOH. The dependence of on [OH] is studied. In order to exclude side reactions, the alkali was quickly diluted with water at i = const without switching off the current. It was found that for NaOH the overtension  $\gamma$  in sections I and III is independent of [OH]. In KOH, the function  $\gamma = f(\log [OH]^+)$  takes a linear course in sections I and III. The same is valid for LiOH in section III. The coefficients of the inclination of the function  $\gamma = f(\log i)$  in section I (0.032 - 0.047 at 7.5 - 0.6 M KOH; 0.030 - 0.031 at 9.5 - 0.4 M NaOH) and the fact that  $\gamma$  is independent of [OH] proved the limiting effect of reaction (1). The coefficient of inclination in section III (0.090 - 0.130) corresponds to the limiting phase (3). In order to explain the fact that  $\gamma$  is independent of [OH], it is assumed that:  $\gamma$  is const - (RT/F) ln [OH] (5). The validity

of equation (4) was also confirmed for the charged nickel oxide electrode, but on the condition that  $\sqrt{\phantom{a}}=0$ . There is therefore a difference in the behavior of the nickel oxide electrode and the smooth electrode studied by the authors. There are 3 figures and 16 references: 14 Soviet-bloc and 2 non-Soviet-bloc.

Card 3/7

20365

The effect of concentration ....

8/020/61/136/005/029/032 B 10 1/B 206

ASSOCIATION: Lisichanskiy filial Gosudarstvennogo nauchno-issledovatel!skogo i proyektnogo instituta azotnoy promyshlennosti i produktov organicheskogo sinteza (Lisichansk Branch of the State Scientific Research and Planning Institute of Nitrogen Industry and Products of Organic Synthesis)

PRESENTED:

September 19, 1960, by A. N. Frumkin. Academician

SUBMITTED:

September 16, 1960

Card 4/7

TUR'YAN, Ya.I.; TSINMAN, A.I.

Oscillographic study of the drop of oxygen overvoltage on a nickel anode. Zhur. fiz. khim. 36 no.3:659-661 Mr '62.

1. Lisichanskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti.

BATTLE TENTILE TELS AFFTC JD

ACCESSION NR: AP3004070

\$/0076/63/037/007/1598/1600

AUTHOR: Tsinman, A. I.

TITLE:

Oxygen overvoltage on iron in alkali solutions

Zhurmal fizicheskoy khimii, v. 37, no. 7, 1963, 1598-1600 SOURCE:

TOPIC TAGS: cxygen overvoltage, iron, alkali solution, NaOH

ABSTRACT: Author studied the oxygen overvoltage on galvanized iron in NaOH solutions. Reason for experiment was that data concerning anodic evolution of oxygen on iron in alkali are limited and contradictary. The anode was prepared by electrolytic precipitation of iron from a chlorine bath onto a wire sealed in glass. The thickness of the galvanic covering was 0.06 - 0.08 mm. The electrode surface was prepared by scouring in warm 5N alkali, etched in 2N hydrochloric acid for 50 seconds and a prolonged (20 Hours) preliminary polarization by a current of 10-7 amp/cm2. The solutions were purified by electrolysis on large platinum electrodes. A mercury oxide electrode in the same solution served as the comparison electrode. Author found that the capacity of the electrode established by the drop in overvoltage is much greater than for the double-layered. The theoretical equation, brought out in the hypothesis concerning the slowing-

Card 1/2

L 17717-63 ACCESSION NR: AP3004070		
down of the second electronships observed in the experiormulas.	chemical stage, satisfactorily driment. Orig. art. has: 3 figu	escribes the relation- res, 2 tables and 3
ASSOCIATION: Gosudaretvenmorganicheskogo sinteza. Li industry and organic synthe	ny*y institut azotnoy promy*shle leichsnekiy filial (State instit seis products, Lisichansk branch	nnosti i produktov
SUBMITTED: 09Jul62	DATE ACQ: 15Aug63	ENCL: OO
UB CODE: CH, PH	NC REF SOV: 006	OTHER: 002
		<u> </u>

#### TSINMAN, A.I.

Effect of alkali concentration on oxygen overvoltage and the mechanism of anodic oxygen evolution on nickel at low current densities. Zhur, fiz, khim, 37 no.6:1343-1348 Je 163.

1. Lisichanskiy filial Gosudarstvennogo proyektnogo i nauchnoissledovatel skogo instituta azotnoy promyshlennosti. (Nickel electrodes) (Oxidation, Electrolytic) (Alkalies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757110007-2"

# TSINMAN, A.I.

Oxygen overvoltage decay after switching off the polarized current on nickel, cobalt, iron, copper, and gold anodes. Elektrokhimiia 1 no.3:326-331 Mr '65.

(MIRA 18:12)

1. Gosudarstvennyy institut azotnoy promyshlennosti, Severodonetskiy filial.

TSINMAN, A.1., KOVSMAN, Ye.P., KUZUB, V.S.

Anodic behavior of titanium and stability of a platinum titanium anode in aqueous methanol solutions containing chlorine ions. Ukr. khim. zhur. 31 nc.9:923-926 '65. (MPR 18:11)

1. Severodonetskiy filial Gosudarstvennogo nauchno-issledoratel'skogo i proyektnogo instituta azotnoy promyshlennosti i preduktov organicheskogo sinteza.

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KOLOTYRKIN, Ya.M.; MAKAROV, V.A.; KUZUB, V.S.; TSINMAN, A.I.; KUZUB, L.G.

Anodic protection of heat exchangers made of lkhlgN9T steel in concentrated sulfuric acid at temperatures of 100 - 120°. Zashch. met. 1 no.5:598-600 S-0 '65. (MIRA 18:9)

1. Nauchno-issledovatel skiy fiziko-khimicheskiy institut imeni L.Ya.Karpova, Moskva.

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TSINHAN, A.T.; KUZUB, V.S.

Dissolution of stainless steels at the potentials of passive state disturbance by fluorine ions. Thur. fiz. khim. 39 no.8:2020-2021 Ag 165. (MIRA 18:9)

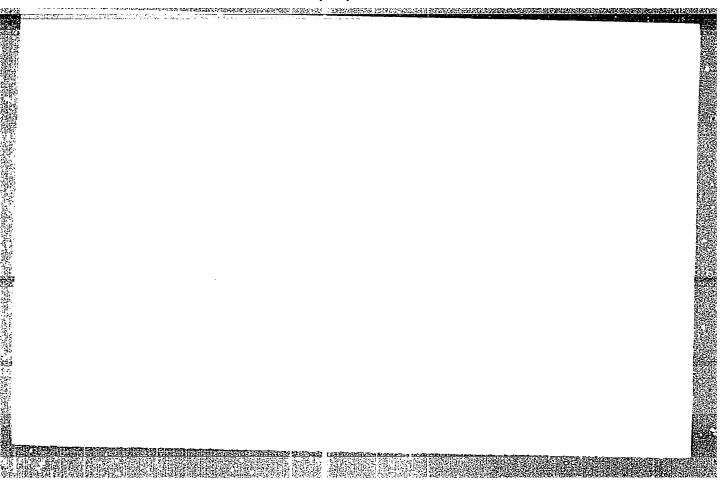
1. Severodonetskiy filial Cosudarstvennogo instituta azotnoy promyshlennosti.

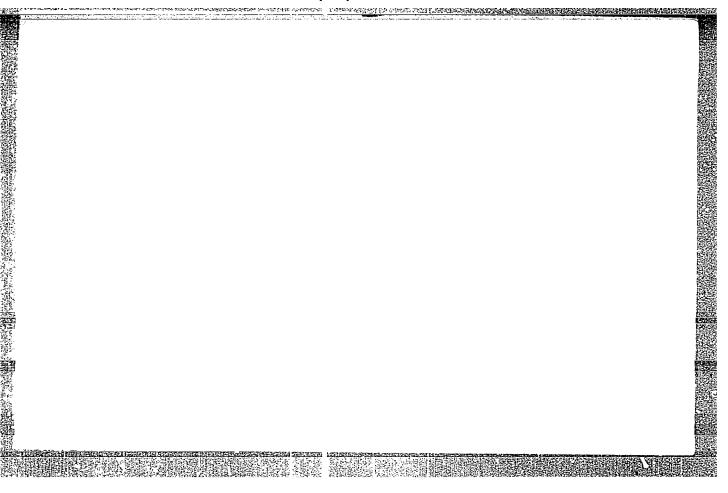
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KUZUB, V.S.; NEYMAN, N.S.; TSINMAN, A.I.

Anodic dissolution of nickel in solutions of sulfuric acid. Zashch. met. 1 no.3:277-279 My-Je 165. (MIRA 18:8)

1. Gosudarstvennyy institut azotnoy promyshlennosti Severodonetskiy filial.





Oxygen overvoltage on gold. Elektrokhimiia 1 no.4:409-412 Ap 165. (MIRA	18:6)
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L 4205-66 EWT(m)/EPF(c)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/WB

ACCESSION NR: AP5014132 UR/0365/65/001/003/0277/0279

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Kuzub, V. S.; Neyman, N. S.; Tainman, A. I. AUTHOR:

Anodic dissolution of nickel in H2SO4 solutions

SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 277-279, and insert facing p. 275

TOPIC TAGS: anodic oxidation, potentiometer, electrode potential, nickel plating

ABSTRACT: In this work, anodic potentiostatic measurements and metallography are used to study the dissolution of 99.2% pure Ni in a 1 N H<sub>2</sub>SO<sub>4</sub> solution and in an electrolytic polishing solution, 21.5 N H<sub>2</sub>SO<sub>4</sub>, at a temperature of 22 \* 1°. The potentiostatic curves are obtained by using an electronic potentiostat. The specimens used had both planar and cylindrical shapes; at potentials above 1.3 v the strength of the current depended upon the separation and shape of the electrodes. Data on the dissolution of Ni are presented in the form of potentiostatic curves (1g i-a/cm<sup>2</sup> as a function of \$-voltage) in both of the H<sub>2</sub>SO<sub>4</sub> solutions. Some of the curves illustrate the dependence of current density and speed of dissolution on potential. Surface microphotographs of Ni are shown for various regions of the potential, after 5-10 min of dissolution. However, for the regions of stability

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(passivization) the immersion time was longer. In the 1 N H2SO4 for the transition towards the passivating region, the surface was found to be etched, and pitting was observed. In the secondary region of passivity, spots of intercrystalline corrosion were observed, while beyond this region they diminished. Intercrystalline corro- 7, 44,5 sion of the Ni occurred in the 21.5 N H2SO4 in the interval of potential from 0.3 to 1.3 volts. This is rationalized in terms of established theories of oxygen adsorption on the Ni surface which resulted in electrochemical heterogeneity of the grains relative to the boundaries and enhanced intercrystalline corrosion. The absence of intercrystalline dissolution in the 21.5 N H<sub>2</sub>SO<sub>4</sub> in the potential range from 1.7 to 2.2 volts is explained by the apparent effect of the limiting current in causing the presence of some type of diffusion layer to form on the surface of the Ni. An analogous pattern of behavior was observed in the electrolyte H<sub>3</sub>PO<sub>4</sub> + H<sub>2</sub>SO<sub>4</sub> + CrO<sub>3</sub>, where a similar increase in speed of dissolution was observed with the beginning of oxygen evolution. The authors conclude that only in the presence of some diffusion layer can the rates of dissolution of grains and boundaries be equalized, otherwise the adsorption of oxygen will result in intercrystalline attack. Orig. art. has: 5 figures.

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L 1254-66 EMT(m)/EPF(e)/EMA(d)/EMP(t)/EMP(a)/EMP(b) IJP(e) MSM/JD/HA/SI/WB/

ACCESSION NR: AP5021672

UR/0080/65/038/008/1872/1874 620. 191/. 193

AUTHOR: Tsinman, A. I.; Kuzub, V. S.

TITLE: Corrosion of stainless steels in solutions of dicarboxylic acids

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 8, 1965, 1872-1874

TOPIC TAGS: corrosion rate, stainless steel, corrosion resistant steel, chromium alloy, molybdenum steel, dicarboxylic acid, nickel, copper molybdenum titanium

ABSTRACT: A study was made of the corrosion behavior of ordinary stainless steels (1Kh18N9T, Kh1812M2T) and of a number of new experimental chromium-nickel, chromium-molybdenum, and chromium-nickel-molybdenum steels in a solution of adipic acid in the temperature range 160-245 C. A comparison was made of the corrosive activity of solutions of glutaric, succinic, adipic, and sebacic acids on Kh18N12M2T steel. Data were taken on the corrosion resistance of NIKhMo-20 steel, nickel, copper, molybdenum; and titanium. Corrosion rates were determined on rectangular samples of rolled sheet 2-3 mm thick with surfaces of 15-30 cm<sup>2</sup>. Test results showed that the nickel content in chromium-Card 1/2

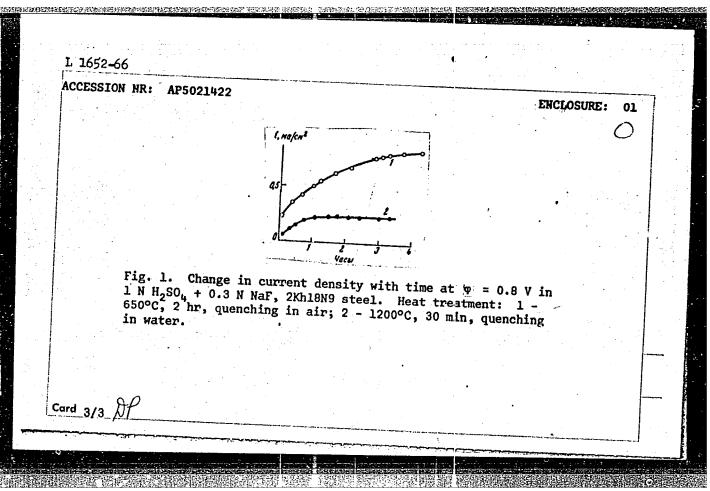
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nickel steels has only a slight effect on the corrosion rate in adipic acid. However, the corrosion rate of austenitic steels (IKh18N9T, OKh21N14B, OKh19N14B) is approximately 1.5-2.0 times less than that of ferritic-austenitic steels (CKh21N5B, OKh21N5T). In tests of chromium-molybdenum steels at 170, 225, and 240C/corrosion resistance increased with increased chromium and molybdenum content. With an increase in temperature, steels alloyed with additions of molybdenum or copper have greater chemical resistance in adipic acid solutions than chromium-molybdenum steels. It was determined that solutions of adipic acid do not differ in corrosion activity from solutions of other dicarboxylic acids. Experimental data indicated that in solutions of these acids, the corrosion rate of stainless steels increases sharply with rise in temperature. Chromium-nickel-molybdenum steels were found to have the greatest corrosion resistance. The most resistant materials in solutions of dicarboxylic acids were titanium, molybdenum and NIKhMo-20 steel. Orig. art. has: 2 figures and 2 tables ASSOCIATION: Lisichanskiy filial Gosudarstvennogo instituta azotnoy promushlennosti (Lisichansk Branch of the State Institute for the Nitrogen Industry) SUBMITTED: 04Feb63 NR REF SOV: 003 SUB CODE: MM OTHER: 000 \* These designations should begon with a (gere) instead of O (latte)

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ļ	CCESSION NR: AP5021422 UR/0076/65/039/008/2020/2021 620.191/.1 9 328
T	ITLE: Dissolution of stainless steels at potentials of disruption of the passive tate by fluoride ions
l	OURCE: Zhurnal fizicheskoy khimii, v. 39, no. 8, 1965, 2020-2021
nde de al zo di Th	SSTRACT: Addition of sodium fluoride to sulfuric acid disrupts the passivation tate of chromium-nickel steel. The dissolution rate of nickel is increased, but that of chromium. An increase in the chromium dontent of steel from 13 to 27% creases the dissolution rate in 1 N H <sub>2</sub> SO <sub>4</sub> (containing 0.3 N Nar) by a factor of the last 100 at $\varphi$ = 0.6 - 0.8 V. This leads to the assumption that steels having ones poor in chromium should dissolve faster than hardened steels, and that the assolution of such steels should have the character of intercrystalline corrosion. This assumption was proven correct by measuring the current density versus time with lectrodes of 2Kh18N9 steel, one of which was heat-treated at 1200°C (30 min,
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followed by quenching in water	(t)		7
followed by quenching in wate quenching in air). The annea of regions poor in chromium (			
time is due to a continuous i	increase in surface area a	s a result of the process	with
ions at potentials for which stat being required. Orig. a		ls is disrupted, no po	tentio-
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TSINMAN, A.I.; KUZUB, V.S.; SOKOLOVA, L.A.

Effect of fluoride ions on the electrochemical and corrosion behavior of stainless steels. Zashch. met. 1 no.2:173-177 Mr-Ap '65. (MIRA 18:6)

l. Severodonetskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti.

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